Missouri Botanical Garden

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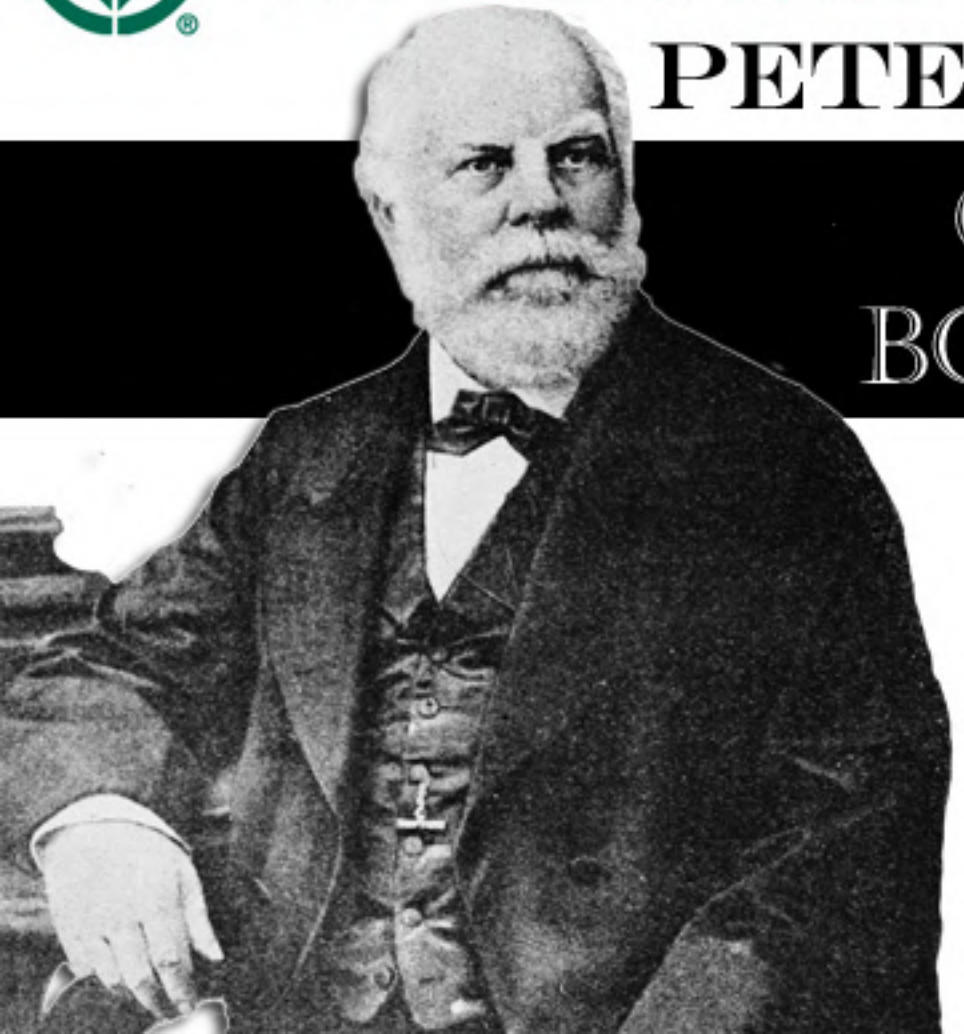
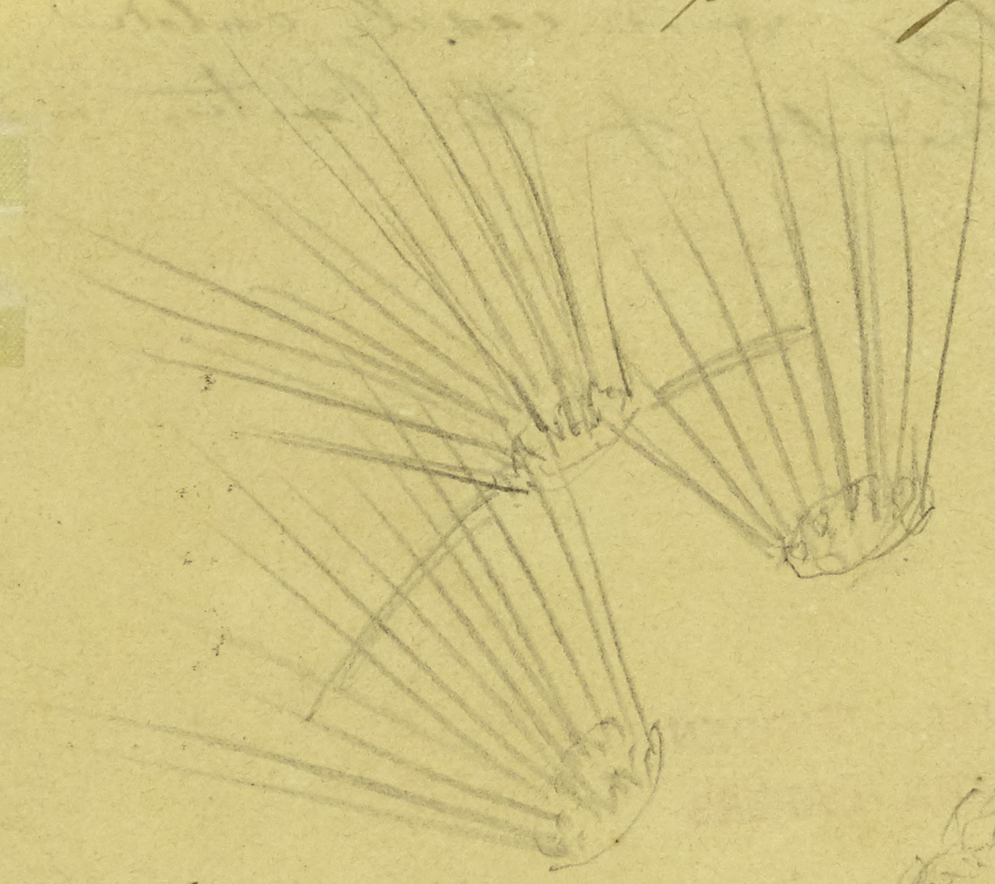
George Engelmann Botanical Notebooks



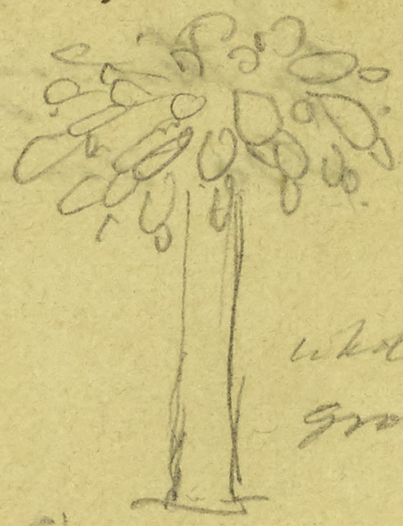
Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Opuntia Galapageia Henslow Febr 21 1877

in Edinb. Mag. Jour. & Bot. I tab. 14 fig 2



from Hen

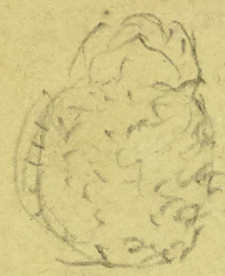


whole tree

enlarged

fig

open flower



woolly cut

sepal

petal

Darwin on Galapagos Islands (on James Island) tree, 6–10 feet high, 1 foot ± diam. cylindrical or slightly tapering — bark pale hangs down & shaggy ragged — trunk with stout spines 5–10 — about Joints 1 foot long, with fine bristly spines — make the branches

red flowers milk from a woolly areola, covered by dense [illegible]

red Style with cylindrical [?] 8 stigm. erect.

Lower parts of James Island arid & rocky — the only plant there to afford any shade. The succulent branches are eagerly devoured by the numerous tortoises, large lizards & other animals

over

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Lizards, & fat bacon were easily entered by throwing them Crumbs of the Cakes and also small birds

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Leitch & Corlies
DRUGGISTS
South West Corner Fifth and Market Streets.

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Opuntia basilaris
White water Desert Nov 10 1880

Jan 27 1881

about 30 areolæ on dry fruit

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Henry T. Rohlfing,

APOTHECARY,

No. 2600 Laclede Ave., S. W. Cor. Jefferson Ave.,

ST. LOUIS, MO.

No. ..... *Date,* *187*

℞

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Geo. Engelmann, M. D.,
No. 3003 Locust Street.

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Opuntia

B. Platopuntia

O. Whitneyi is peculiar

Opuntia basilaris Eng & Bigg. Joints obovate or triangular, prolifer-
ous from their base, pubescent, without spines, but with numerous
bundles of short
brownish bristles; flowers purple, large; fruit dry, with large thickened
also the large rose-

Nevada, 4th Silverpeak region, south of Walker's Lake, W M Gabb

Southward to A. Whitneyi May; A very peculiar species, easily distinguished from the
other congeners; flowers 2½ inches diameter,
joints 5 or 6 inches long

41

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Mus Botan. Hort Paris
April 8' 1869

Galapagos

Rébou

" Galapagos
Mr Rébou, chirurgie major
de la Frégatte, La Venus
Capt Du Petit Thouars "

half size

compressed

oval

subglobose

globose

A jointed plant, dirty
mostly broken up and tied
in a bundle together, but
evidently arranged alongside
with the manner of the figure
hereby drawn, in half the
natural size.

The articulations and the upper
most flattened joint seem to
indicate an Opuntia; but
I find (on the old and withered
specimen!) no bristles, nor
seem the spines to be barbed.

Spines
numerous, black, very, straight,
four to in number
arcolæ rather crowded.
1/2 or 3/4 inch apart.

Opuntia acantha
Op. leptacantha n sp

Same as Otyg. 2d plant

has (about p. 452) "foliage thin - coarse ranges" — bark is smooth, almost without fruits — spikes whitish ash — only yellow when very yo

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L. Agassiz, Hasler Exped. Sept 1 1872

Myriacanthus n.s.p. ~~Opuntia Galapageia Henslow, Mag of Bot & Nat Hist. p. 274 (1837)~~

Opuntia ~~Galapageia Henslow~~, Mag of Bot & Nat Hist. p. 274 (1837)

Galapagos group, seen only on Indefatigable and Albemarle islands, not on Jarvis, Charles & James Islands where only the larger O. Galapageia grows.

Collected & sent by L Agassiz June 1872

Erect, joints flat Thin, elongated, narrow

Lower ones 3 - 3½ inches wide by 9 inches long 3 times as long as wide

Light bright green,

Areolas very close, 2½ - 4 lines apart, orbicular, at 1½ - 2 lines diam, in older joints larger clothed with persant grayish brown wool, yellow bristles often numerous & large, especially towards upper part of areola, strongly barbed

Spines numerous scarcely bristlelike, (very unequal) 10 - 20 larger ones 1½ - 1¾ inches long diffuse — all light yellow or bright straw colour, barbs at point soon worn off

This seems scarcely different from O. Spinosissima Miller - Pfeiff en 166 Labouret 452 (O. Speciosissima splendens!) — DCandolle Prod. says: "articuli oblongi" Pfeiff. l.c.: "caule inarticulato" Antilles!

See also Grisebach Fl Ind occid. p 302

Nov 1872 Growing in Mo Botanic Garden, leaves very slender and scarcely one line long, or less, while Opuntia spinosissima has (Labouret p. 452) "feuilles très-courtes rouges" — but is omitted, almost without joints — Spines whitish ash — only yellow when very young

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Sept 1st 1872

see also Wilp. Rep. II. 354 (1843)

Opuntia Galapageia Henslow Mag Zool. & Bot. Ed 26. vol I. p. 466 (1837)
Galapagos group, on James, Charles' seen only tab 14 fig 2.
and James' islands (while Op. Myriacantha
is found only on Indefatigable and Albemarle Islands)
collected by A Agassiz June 1872

Erect, trunk at last terete, covered with
bunches of yellow spines, and finally naked.
Joints broadly obovate or orbicular, larger ones
(seen) 11 x 7 inches high, nearly 9 inches wide,
somewhat glaucous green, rather smooth & even (not tuberc
Areolae in these joints 2½-3 lines distant
circular, 10-12 lines apart, bearing a grayish brown
to mentum and numerous yellow Bristles or
Bristly spines, 3-12 lines long very thin, in the joints 15-20 stellate
the margin Areolae on
larger and crowded, spines longer and more
numerous, giving the edge a Densely Bristled
appearance (similar to Opuntia crinifera =
galapagina fide Labouret p. 455 (also fide K
In an old joint before me the areolae are 4 lines
distant very soft woolly, hemispherical, bear 15-20
spines, the longer ones deflexed 1 to 3 inches long
and numerous bristles make their appearance
In the spines the barbs are mostly worn off,
but in the bristles they are very distinct, just
as in other Opuntiae.

Opuntia galapagina Salm, Pfeiff en. 164 to which
fide Salm O. crinifera Salm, O. laevigata (Pfeiff en p. 157.
belongs, is apparently similar, but the spines seem
slender, and more numerous.

Nov 1872 Growing in Mo Botanic Garden, leaves small and slender
rarely more than one line long, and thus distinguished from O. galap.
which has leaves 3-4 l. long or more

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F ~~I have also seen~~ one a fruit from Arizona ~~was~~ 4½ inches long (curved cylindric and).

southwardly it makes trunks of 1 or 2 to 8 or 10 feet high, covered with the reflexed dead leaves. Leaves 1½-3 feet long, 1-2 inches wide, narrowed downward, gradually attenuated into a very stout (brown sharp or blunt) point, channeled or quite concave, thicker than in most other species, very stiff and rough, especially on the back; on old branching plants Dr Palmer found the leaves scarcely over 1 foot long and 1 inch wide, but very thick. The fibres are as thick as ~~thin~~ ordinary twine and often regularly ~~and gracefully~~ curved backward. The panicle of the stemless form is raised on a scape of almost its own length, in caulescent ones the pedicle is shorter. The exterior bracts are 4 or 5 inches long and 2 wide, similar to those of the last species, but narrower. The flowers are large spreading 2½-3 inches ~~in diam~~, segments 2½-3¼ inches long ⅔-1 inches wide; stamens (as long as ovary, papillose-hispid) rarely at last reflexed; pistil 1-2 inches in length style slender, unusually long for the genus, in the ~~largest slenderest~~ flowers equalling as long as the ovary, in others ½ one half or only ~~one~~ ¼ fourth its length. ovules about 0.4 mm thick. The fruit is a ~~savory date-like~~ dark purple, berry" ~~dark purple~~ with a very distinct and ~~long~~ often elongated beak, (oval, about the size and shape of a hen's egg" ~~and not angled; in some specimens~~ ~~is~~ which is marked with six grooves, while the fruit itself is not angled or grooved ~~marked~~. Some fruits, I have seen, were 3 inches long and 2 in thickness with a beak of about half their length. The base is protracted ~~beyond~~ below the remnants of the perigon, which is not the case in the fruits of Y. aloifolia or Y. Treculiana; the ~~three~~ pods ~~berries~~ of these three species are remarkably distinct, and always easily recognized, while the seeds themselves are very similar. The fruits are said to be "savory like dates" and are eaten fresh by whites and Indians and cured by the latter for winter provisions; Dr Palmer informs me that the Arizona Indians find the stewed flowerbuds and flowers quite pleasant and nourishing. The seeds are often

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Opuntia Castaneo

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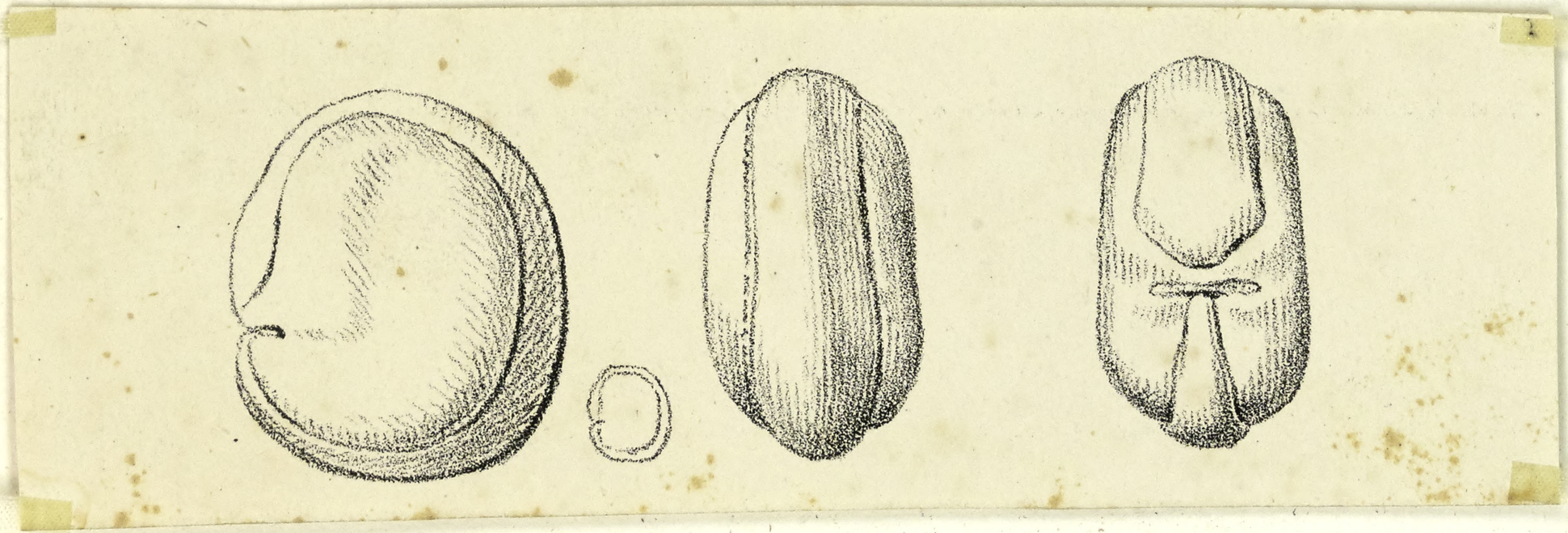

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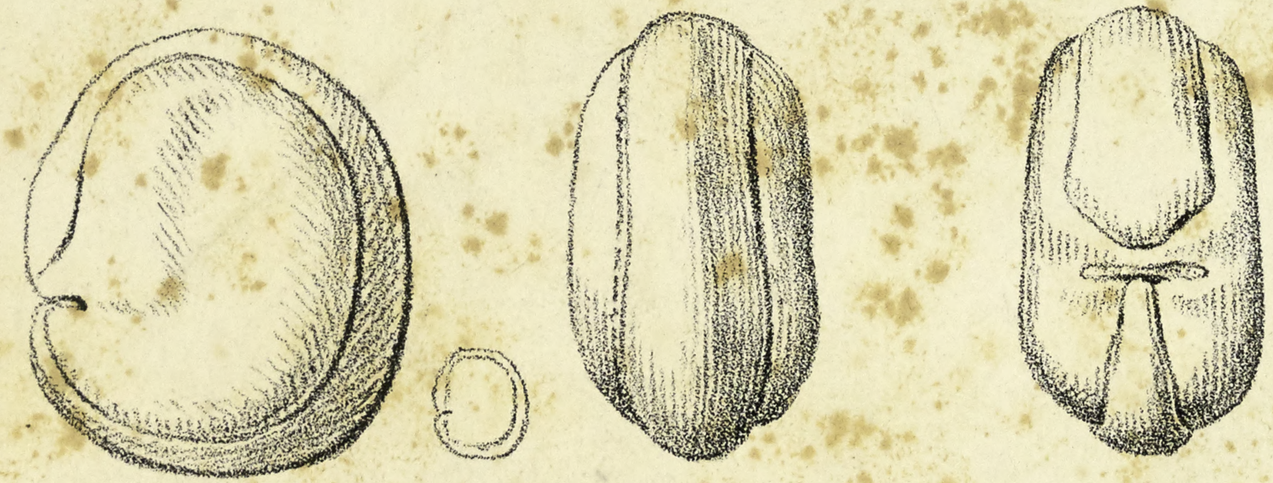
x4



Opuntia basilaris

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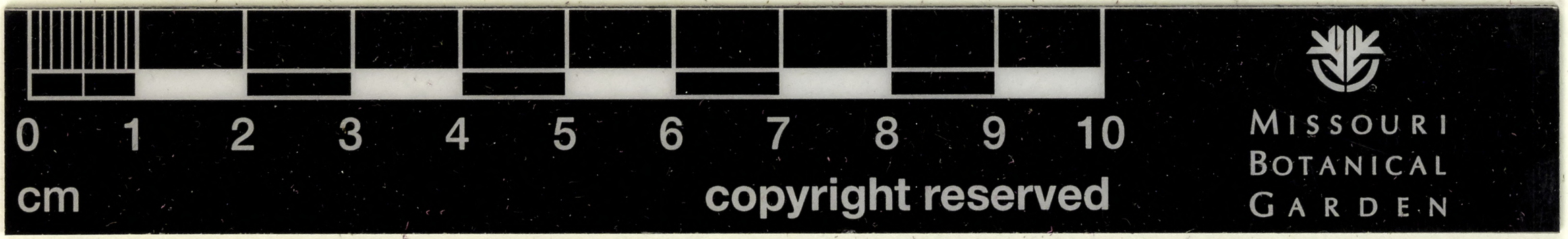

Opuntia basilaris Engel & Bigelow

see notes to Ives Expdtn 1858

4.

1, Flower, Common form
2 do. with nearly smooth base

1

2

3 General aspect
4
5 } forms of branches
6

Spines very numerous
Short - yellow

6.

3

4

5

Opuntia.
Very common
ob-cordate -
Flowers rose

Fort Lees near San Felipe.
Army Colonel - Branches generally
emarginate - often entire & elongated
Color - fragrant - Sometimes 150 flowers on a single plant

Dr Newberry 1858.

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Opuntia basilaris Eng.

Rather pass at the head waters of Bill Williams Fork of the Colorado

Collected by Dr Bigelow Feby 1st 1854

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